

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

## The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

12/09/2011

Larry Bates
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- 1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for sample
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples

Ann Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Annie Dookhan

Chemist

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

#### Curriculum Vitae

### Annie Khan (Dookhan)

#### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- \*Maintenance and repairs of all analytical instruments.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Notary Public.

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

#### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

### Curriculum Vitae

### Kate A. Corbett

### Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

### **Employment**

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

**Drug Analysis Laboratory** 

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- > Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- > Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- > Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

kacham Balise	CC #_		***************************************
DEPARTMENT	BOOK #		
RUG RECEIPT	PAGE #		
	DESTRUCTION #		
strict/Unit			
ame & Rank of Arresting Officer Office	r David De Par	olo ID# //	i d
		,	
DEFENDANT'S NAME	ADDRESS	CITY	STATE
		LABUS	E ONLY
DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER
Heroine	Small WS/W	Q M	
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	Residice/		
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	10.00		
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ECU Control # \_\_\_

Date Analyzed:

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: Amount:

No. Cont:

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Cont. poce110

Date Rec'd: 12/16/2010

Gross Wt.: 8.07 No. Analyzed:

Net Weight: 0.03

Subst: SUB

# Tests: 4 A So 2004

Prelim: Heron

Findings:

# DRUG POWDER ANALYSIS FORM

No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:  Beige powerers subst  10010  10010	Pkg. Wt:
PRELIMINARY TESTS Spot Tests  Cobalt Thiocyanate (+)  Marquis +  Froehde's +  Mecke's +	Microcrystalline Tests  Gold Chloride  TLTA ( )  OTHER TESTS
PRELIMINARY TEST RESULTS  RESULTS Heron  DATE 3-1-11	GC/MS CONFIRMATORY TEST  RESULTS WAS OPERATOR KAC

### Area Percent / Library Search Report

178/11 NKAC

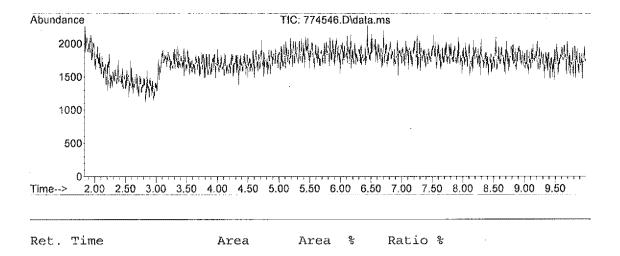
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Operator : ASD/KAC

Date Acquired : 2 Mar 2011 22:02

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

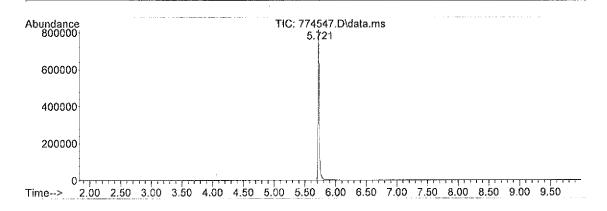
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Operator : ASD/KAC

Date Acquired : 2 Mar 2011 22:14

Sample Name : HEROIN STD

Submitted by : ASD Vial Number : 47 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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File Name : I:\03 02 11\774547.D

Operator : ASD/KAC

Date Acquired : 2 Mar 2011 22:14

Sample Name : HEROIN STD

Submitted by : ASD Vial Number : 47 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW\_TOX2.L

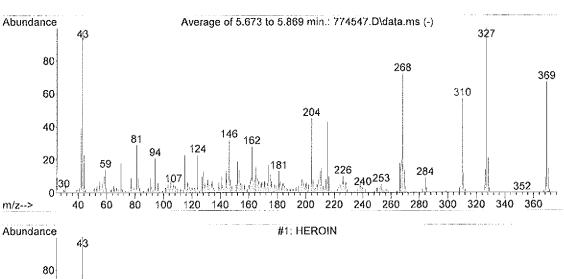
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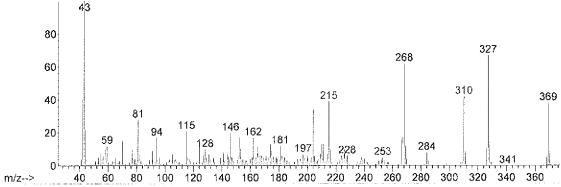
1 5.72 C:\Database\SLI.L

HEROIN

000561-27-3 99

Minimum Quality: 80



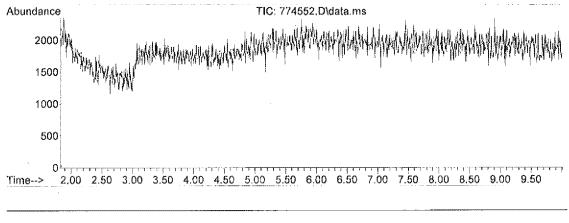


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Operator : ASD/KAC

Date Acquired : 2 Mar 2011 23:18

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

\*\*\*NO INTEGRATED PEAKS\*\*\*

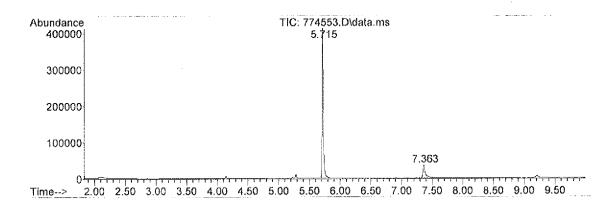
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Operator : ASD/KAC

Date Acquired : 2 Mar 2011 23:31

Sample Name

Submitted by : ASD
Vial Number : 53
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
5.715 7.363		84.97 15.03	100.00 17.69	

File Name : I:\03 02 11\774553.D

Operator : ASD/KAC

Date Acquired : \_ 2 Mar 2011 23:31

Sample Name : Submitted by : ASD Vial Number : 53

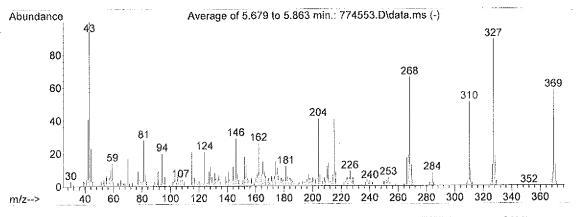
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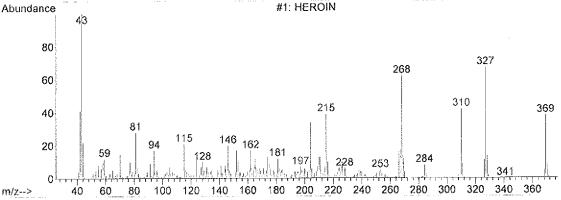
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C:\Database\SLI.L Minimum Quality: 80 C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	5.71	C:\Database\SLI.L HEROIN JWH-073	000561-27-3 208987-48-8	99 2





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File Name : I:\03\_02\_11\774553.D

Operator : ASD/KAC

Date Acquired : 2 Mar 2011 23:31

Sample Name :| Submitted by :

: ASD : 53

Vial Number : 53 AcquisitionMeth: DRUGS.M

Integrator : I

RTE

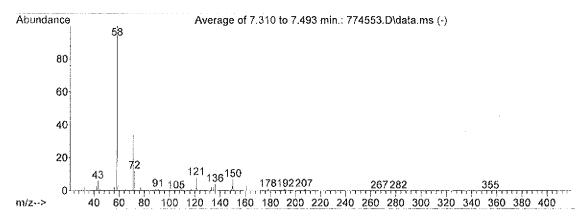
Search Libraries: C:\Database\SLI.L

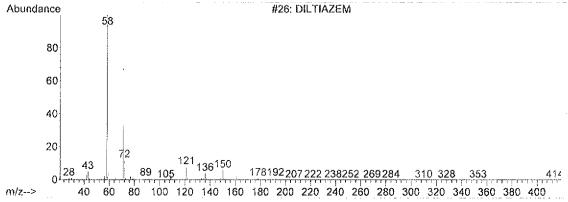
Minimum Quality: 80

C:\Database\NIST08.L
C:\Database\PMW TOX2.L

Minimum Quality: 80

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		DILTIAZEM	033286-22-5	91
		3,4-MDMA	042542-10-9	9
		ORPHENADRINE	000083-98-7	4





File Name : I:\03\_02\_11\774562.D

Operator

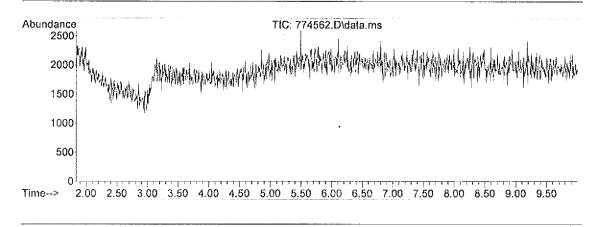
: ASD/KAC

Date Acquired

: 3 Mar 2011 1:26

Sample Name Submitted by : BLANK

: ASD Vial Number 2 AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time

Area

Area 왕 Ratio %

\*\*\*NO INTEGRATED PEAKS\*\*\*

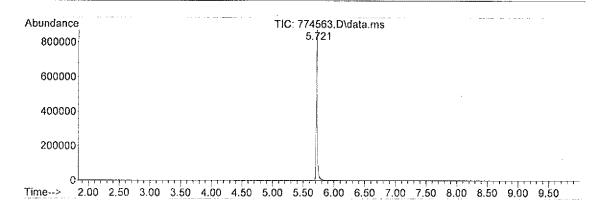
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Operator Date Acquired : 3 Mar 2011

: ASD/KAC

Sample Name : HEROIN STD

Submitted by : ASD Vial Number 47 AcquisitionMeth: DRUGS.M Integrator : RTE



1:39

Ret. Time	Area	Area %	Ratio %	
5.721	1172366	100.00	100.00	

File Name : I:\03\_02 11\774563.D

Operator : ASD/KAC

Date Acquired : 3 Mar 2011 1:39

Sample Name : HEROIN STD

Submitted by : ASD
Vial Number : 47
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

C:\Database\SLI.L Minimum Quality: 80 C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW TOX2.L

PK# RT Library/ID CAS# Qual

1 5.72 C:\Database\SLI.L

HEROIN

000561-27-3 99

